

**Amendments in the Claims**

1 to 17 (canceled).

18. (Withdrawn) A method of delivering an active agent in vivo comprising administering to a subject a purified composition of claim 8.
19. (Withdrawn) A method of delivering a drug to a subject comprising administering to the subject a purified composition of claim 14.
20. (Withdrawn) A method of delivering a drug to a subject comprising administering to the subject a purified composition of claim 15.
21. (Withdrawn) The method according to claim 18 in which the administering is oral.
22. (Withdrawn) The method according to claim 18 in which the active agent is a drug.
23. (Withdrawn) The method according to claim 18 in which the subject is a human.
24. (Withdrawn) The method according to claim 21 in which the subject is a human.
25. (Withdrawn) The method according to claim 18 in which said composition facilitates the transport of the active agent through human or animal gastrointestinal tissue.
26. (Withdrawn) The method according to claim 19 in which the administering is oral.
27. (Canceled).
28. (Withdrawn) An antibody which is capable of immunospecifically binding the peptide of claim 1.
29. (Withdrawn) A molecule comprising a fragment of the antibody of claim 28, which fragment is capable of immunospecifically binding said peptide.

30 to 34 (Canceled).

35. (Withdrawn) A method of treating or preventing a disease or disorder comprising administering to a subject in which such treatment or prevention is desired a therapeutically effective amount of the composition of claim 8.
36. (Withdrawn) A method of treating or preventing a disease or disorder comprising administering to a subject in which such treatment or prevention is desired a therapeutically effective amount of the composition of claim 14.
37. (Withdrawn) A method of treating or preventing a disease or disorder comprising administering to a subject in which such treatment or prevention is desired a therapeutically effective amount of the composition of claim 15.

38. (Withdrawn) The method according to claim 35 in which the disease or disorder is selected from the group consisting of: hypertension, diabetes, osteoporosis, hemophilia, anemia, cancer, migraines, and angina pectoris.
39. (Withdrawn) The method according to claim 38 in which the subject is a human.
- 40 to 43 (Canceled).
44. (Withdrawn) A synthetic protein comprising a retroinverted peptide, said retroinverted peptide being the retro-inverted form of an L-peptide that has an amino acid sequence selected from the group consisting of SEQ ID NOS: 16-70, said synthetic protein being one that specifically binds to a Caco-2 cell membrane fraction.
45. (Withdrawn) A synthetic protein of claim 44 wherein the protein consists of not more than 75 amino acids.
46. (Withdrawn) A synthetic protein of Claims 44 wherein the protein is the retroinverted peptide.
47. (Withdrawn) A synthetic protein comprising either a retro-inverted peptide or fragment thereof, said retroinverted peptide being the retroinverted form of an L-peptide consisting of an amino acid sequence selected from the group consisting of SEQ ID NOS: 16-70, wherein said fragment has at least five contiguous amino acids and wherein said synthetic protein specifically binds to a Caco-2 cell membrane fraction.
48. (Withdrawn) A synthetic protein of Claim 47 wherein the fragment has at least 10 contiguous amino acids.
49. (Withdrawn) A synthetic protein of Claim 48 wherein the fragment has at least 20 contiguous amino acids.
50. (Withdrawn) A synthetic protein of claim 47, wherein the fragment consists of an amino acid sequence selected from the group consisting of:
- (a) rtrlrmhsshkant (SEQ ID NOA), which is the retro-inverted form of the L-peptide TNAKHSSHNRRRLRTR (SEQ ID N0:4);
  - (b) gphrrgrpnrsrskrt (SEQ ID N0:2), which is the retro-inverted form of the L-peptide TRKSSRSNPRGRRHPG (SEQ ID N0:5); and
  - (c) gtsngngccnydgp (SEQ ID N0:3), which is the retro-inverted form of the L-peptide PGDYNCCGNGNSTG (SEQ ID N0:6).

51. (Withdrawn) A synthetic protein of Claim 50 wherein the synthetic protein is a fragment consisting of an amino acid sequence selected from the group consisting of:
- (a) rtrlrrnhsshkant (SEQ ID N0:1), which is the retro-inverted form of the L-peptide TNAKHSSHNRRLRTR (SEQ ID N0:4);
  - (b) gphrrgrpnssrskrt (SEQ ID N0:2), which is the retro-inverted form of the L-peptide TRKSSRSNPRGRRHPG (SEQ ID N0:5); and
  - (c) gtsngngccnydgp (SEQ ID N0:3), which is the retro-inverted form of the L-peptide PGDYNCCGNGNSTG (SEQ ID N0:6).
52. (Withdrawn) A synthetic protein of claims 47-50 wherein the synthetic protein consists of not more than 75 amino acids.
53. (Withdrawn) A synthetic protein of claims 47-50 wherein the synthetic protein consists of not more than 50 amino acids.
54. (Withdrawn) A synthetic protein comprising either a retro-inverted peptide or a homolog of said retro-inverted peptide, said retroinverted peptide being the retroinverted form of an L-peptide that consisting of an amino acid sequence selected from the group consisting of SEQ ID NOS- 16-70,
- wherein said homolog is based on percent homology or on amino acid functional equivalency,
- wherein said synthetic protein specifically binds to a Caco-2 cell membrane fraction,
- wherein a homolog based on percent homology is one that has at least 80 % but less than 100% identity with said retro-inverted peptide when the homolog is compared to a sequence of equal length of the retroinverted peptide, and
- wherein a homolog based on amino acid functional equivalency is one that comprises one or more amino acid differences compared to the retroinverted peptide, and
- wherein each amino acid difference is consistent with the following rules:
- 1) a nonpolar amino acid is replaced by another nonpolar amino acid, wherein the nonpolar amino acids are alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophan and methionine;
  - 2) a polar neutral amino acid is replaced by another polar neutral amino acid wherein the polar neutral amino acids are glycine, serine, threonine, cysteine, tyrosine, asparagine, and glutamine;

- 3) a positively charged amino acid is replaced by another positively charged amino acid wherein the positively charged amino acids are arginine, lysine, and histidine; and
  - 4) a negatively charged amino acid is replaced by another negatively charged amino acid, wherein the negatively charged amino acids are aspartic acid and glutamic acid.
55. (Withdrawn) A synthetic protein of claim 54 wherein the homolog is based on percent homology.
56. (Withdrawn) A synthetic protein of Claim 55 wherein the homolog has at least 90 % but less than 100% identity with said retro-inverted peptide when the homolog is compared to a sequence of equal length of the retroinverted peptide.
57. (Withdrawn) A synthetic protein of Claim 54 wherein the homolog is based on amino acid functional equivalency.
58. (Withdrawn) A synthetic protein comprising either a retro-inverted peptide, a fragment of at least five contiguous amino acids of said retroinverted peptide, or a homolog of said fragment,
- wherein said retroinverted peptide is the retroinverted form of an L-peptide consisting of an amino acid sequence selected from the group consisting of SEQ ID NOS 16-70, wherein said homolog is based on percent homology or on amino acid functional equivalency,
- wherein said synthetic protein specifically binds to a Caco-2 cell membrane fraction;
- wherein said homolog has at least 80 % but less than 100% identity with said fragment when the homolog is compared to a sequence of equal length of the fragment, and
- wherein a homolog based on amino acid functional equivalency is one that comprises one or more amino acid differences compared to the retroinverted peptide, and wherein each amino acid difference is consistent with the following rules:
- 1) a nonpolar amino acid is replaced by another nonpolar amino acid, wherein the nonpolar amino acids are alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophan and methionine;

- 2) a polar neutral amino acid is replaced by another polar neutral amino acid wherein the polar neutral amino acids are glycine, serine, threonine, cysteine, tyrosine, asparagine, and glutamine;
  - 3) a positively charged amino acid is replaced by another positively charged amino acid wherein the positively charged amino acids are arginine, lysine, and histidine; and
  - 4) a negatively charged amino acid is replaced by another negatively charged amino acid, wherein the negatively charged amino acids are aspartic acid and glutamic acid.
59. (Withdrawn) A synthetic protein of Claim 58 wherein the fragment has at least 10 contiguous amino acids.
60. (Withdrawn) A synthetic protein of Claim 59 wherein the fragment has at least 20 contiguous amino acids.
61. (Withdrawn) A synthetic protein of claim 58, wherein the fragment consists of an amino acid sequence selected from the group consisting of:
- (a) rtrlrnhsshkant (SEQ ID N0:1), which is the retro-inverted form of the L-peptide TNAKHSSHNRLRTR (SEQ ID NOA);
  - (b) gphrrgrpnsskrt (SEQ ID N0:2), which is the retro-inverted form of the L-peptide TRKSSRSNPRGRRHPG (SEQ ID N0:5); and
  - (c) gtsngngccnydgp (SEQ ID N0:3), which is the retro-inverted form of the L-peptide PGDYNCCGNGNSTG (SEQ ID N0:6).
62. (Withdrawn) A synthetic protein of Claim 61 wherein the synthetic protein is a fragment consisting of an amino acid sequence selected from the group consisting of:
- (a) rtrlrnhsshkant (SEQ ID N0:1), which is the retro-inverted form of the L-peptide TNAKHSSHNRLRTR (SEQ ID N0:4);
  - (b) gphrrgrpnsskrt (SEQ ID N0:2), which is the retro-inverted form of the L-peptide TRKSSRSNPRGRRHPG (SEQ ID N0:5); and
  - (c) gtsngngccnydgp (SEQ ID N0:3), which is the retro-inverted form of the L-peptide PGDYNCCGNGNSTG (SEQ ID N0:6).
63. (Withdrawn) A synthetic protein of claim 58 wherein the protein consists of not more than 75 amino acids.

64. (Withdrawn) A synthetic protein of claim 63 wherein the protein consists of not more than 50 amino acids.
65. (Withdrawn) A synthetic protein of claim 58 wherein the homolog is based on percent homology.
66. (Withdrawn) A synthetic protein of Claim 65 wherein the homolog has at least 90 % but less than 100% identity with said retro-inverted peptide when the homolog is compared to a sequence of equal length of the retroinverted peptide.
67. (Withdrawn) A synthetic protein of Claim 58 wherein the homolog is based on amino acid functional equivalency.
68. (Withdrawn) A synthetic protein of not more than 50 amino acids comprising a retroinverted peptide, such retroinverted peptide being the retroinverted form of an L-peptide consisting of an amino acid sequence selected from the group consisting of
  - (a) Xaa<sub>1</sub> Thr Xaa<sub>2</sub> Xaa<sub>3</sub> Ser Xaa<sub>4</sub> Xaa<sub>5</sub> Xaa<sub>6</sub> Asn Xaa<sub>7</sub>Arg (SEQ ID NO: 71), where Xaa<sub>1</sub> is Ser or Thr; Xaa<sub>2</sub> is Arg or Lys; Xaa<sub>3</sub> is Lys or Arg; Xaa<sub>4</sub> is Ser or Leu; Xaa<sub>5</sub> is Arg, Ile, Val, or Ser; Xaa<sub>6</sub> is Ser, Tyr, Phe, or His; and Xaa<sub>7</sub> is Pro, His or Arg;
  - (b) Asp Xaa<sub>1</sub> Asp Xaa<sub>2</sub> Arg Arg Xaa<sub>3</sub> Xaa<sub>4</sub> (SEQ ID NO: 72) where Xaa<sub>1</sub> is Ser, Ala, or Gly; Xaa<sub>2</sub> is Val or Gin; Xaa<sub>3</sub> is Pro, Gly, or Ser; and Xaa<sub>4</sub> is Trp or Tyr;
  - (c) Val Arg Ser Gly Cys Gly Xaa<sub>1</sub> Xaa<sub>2</sub> Ser Ser (SEQ ID NO: 73), where Xaa<sub>1</sub> is Ala or Phe; and Xaa<sub>2</sub> is Arg or His;
  - (d) NTRKSSRSNPR (SEQ ID NO: 74);
  - (e) STKRSLIYNHR (SEQ ID NO: 75);
  - (f) STGRKVFNRR (SEQ ID NO: 76);
  - (g) TNAKHSSHNR (SEQ ID NO: 77);
  - (h) DSDVRRPW (SEQ ID NO: 78);
  - (i) AADQRRGW (SEQ ID NO: 79);
  - (j) DGRGGRSY (SEQ ID NO: 80);
  - (k) RVRs (SEQ ID NO: 81);
  - (l) SVRSGCGFRGSS (SEQ ID NO: 82);
  - (m) SVRGGCGAHSS (SEQ ID NO: 83);wherein said synthetic protein specifically binds to CaCo-2 cell membrane fraction.

69. (Withdrawn) The synthetic protein of claim 68 wherein the selected amino acid sequence is SEQ ID NO: 71.
70. (Withdrawn) The synthetic protein of claim 68 wherein the selected amino acid sequence is SEQ ID NO: 72.
71. (Withdrawn) The synthetic protein of claim 68 wherein the selected amino acid sequence is SEQ ID NO: 73.
72. (Withdrawn) The synthetic protein of claim 68 wherein the amino acid sequence is selected from the group consisting of SEQ ID NOS: 74-77.
73. (Withdrawn) The synthetic protein of claim 68 wherein the amino acid sequence is selected from the group consisting of SEQ ID NOS: 78-80.
74. (Withdrawn) The synthetic protein of claim 68 wherein the amino acid sequence is selected from the group consisting of SEQ ID NOS: 81-83.
75. (Withdrawn) A synthetic protein of claims 44, 47, 54, 58, or 68 wherein one or more amino acids of the retroinverted peptide, fragment, or homolog thereof, has undergone derivatization selected from the group consisting of glycosylation, acetylation, phosphorylation, amidation and wherein said homolog that has undergone derivatization binds specifically binds to a Caco-2 cell membrane fraction.
76. (Withdrawn) A composition comprising the synthetic protein of Claims 44, 47, 54, 58, or 68, wherein the synthetic protein is coated onto or absorbed onto or covalently bonded to the surface of a nanoparticle or microparticle.
77. (Withdrawn) A composition of Claim 76 wherein the particle size of the nanoparticle or microparticle is between 10 nm and 500 pm.
78. (Withdrawn) A composition of Claim 76 wherein the nanoparticle or microparticle is a drug-loaded or drug-encapsulating nanoparticle or microparticle.
79. (Withdrawn) A composition comprising both a synthetic protein of Claims 44, 47, 54, 58 or 68, and a material comprising a drug.
80. (Withdrawn) A composition of Claim 79 wherein the material is a slow-release device.
81. (Withdrawn) A composition of Claim 79 wherein the synthetic protein is covalently bound to the material.

82. (Withdrawn) A composition of Claim 79 wherein the synthetic protein is non-covalently bound to the material.
83. (Withdrawn) A composition of Claim 78 wherein the drug is selected from the group consisting of a peptide, a protein, a hormone, an analgesic, an anti-migraine agent, an anti-coagulant agent, a cardiovascular agent, and anti-emetic agent, a narcotic antagonist, a chelating agent, an anti-anginal agent, a chemotherapeutic agent, a sedative, an anti-neoplastic agent, a prostoglandin, an antidiuretic agent, an anti-sense oligonucleotide, a gene, a gene- correcting hybrid oligonucleotide, a ribozyme, an aptameric oligonucleotide, a triple-helix forming oligonucleotide, a signal transduction pathway inhibitor, a tyrosine kinase inhibitor, a DNA-modifying agent, a non-viral gene delivery system, and a viral vector gene system.
84. (Withdrawn) A composition of Claim 78 wherein the drug is selected from the group consisting of insulin, calcitonin, calcitonin gene regulating protein, atrial natriuretic protein, colony stimulating factor, betaseron, erythropoietin,  $\alpha$ -interferon,  $\beta$ -interferon,  $\gamma$ -interferon, somatropin, somatotropin, somatotstatin, somatomedins, luteinizing hormone-releasing hormone, tissue plasminogen activator, growth hormone releasing hormone, oxytocin, estradiol, growth hormones, leuprolide acetate, factor VIII, interleukins, fentanyl, sufentanil, butorphanol, buprenorphine, levorphanol, morphine, hydromorphone, hydcodone, oxymorphone, methadone, lidocaine, bupivacaine, diclofenac, naproxen, paverin, heparin, hirudin, scopolamine, ondansetron, domperidone, etoclopramide, diltiazem, clonidine, nifedipine, verapamil, isosorbide-5-mononitrate, benzodiazepines, phenothiozines, naltrexone, naloxone, deferoxamine, desmopressin, vasopressin, nitroglycerine, 5-fluorouracil, bleomycin, prostaglandins, and vincristine.
85. (Withdrawn) A composition of Claim 78 wherein the drug is insulin or leuprolide.
86. (Withdrawn) A composition of Claim 79 wherein the drug is selected from the group consisting of a peptide, a protein, a hormone, an analgesic, an anti-migraine agent, an anticoagulant agent, a cardiovascular agent, and anti-emetic agent, a narcotic antagonist, a chelating agent, an anti-anginal agent, a chemotherapeutic agent, a sedative, an anti-neoplastic agent, a prostoglandin, an antidiuretic agent, an anti-sense



oligonucleotide, a gene, a gene- correcting hybrid oligonucleotide, a ribozyme, an aptameric oligonucleotide, a triple-helix forming oligonucleotide, a signal transduction pathway inhibitor, a tyrosine kinase inhibitor, a DNA-modifying agent, a non-viral gene delivery system, and a viral vector gene system.

87. (Withdrawn) A composition of Claim 79 wherein the drug is selected from the group consisting of insulin, calcitonin, calcitonin gene regulating protein, atrial natriuretic protein, colony stimulating factor, betaseron, erythropoietin,  $\alpha$ -interferon,  $\beta$ -interferon,  $\gamma$ -interferon, somatropin, somatotropin, somatostatins, somatomedins, luteinizing hormone-releasing hormone, tissue plasminogen activator, growth hormone releasing hormone, oxytocin, estradiol, growth hormones, leuprolide acetate, factor VIII, interleukins, fentanyl, sufentanil, butorphanol, buprenorphine, levorphanol, morphine, hydromorphone, hydrocodone, oxycodone, methadone, lidocaine, bupivacaine, diclofenac, naproxen, paverin, heparin, hirudin, scopolamine, ondansetron, domperidone, etoclopramide, diltiazem, clonidine, nifedipine, verapamil, isosorbide-5-mononitrate, benzodiazepines, phenothiazines, naltrexone, naloxone, deferoxamine, desmopressin, vasopressin, nitroglycerine, 5-fluorouracil, bleomycin, prostaglandins, and vincristine.
88. (Withdrawn) A composition of Claim 79 wherein the drug is insulin or leuprolide.
- 89 to 113 (Canceled).
114. (Currently amended) A retro-inverted peptide comprising an amino acid sequence selected from the group consisting of ZELan144 (SEQ ID NO:1), ZELan 145 (SEQ ID NO:2), and ZELan 146 (SEQ ID NO:3) amino acid residues that specifically binds to a ~~gastro-intestinal tract receptor selected from the group consisting of HPT1 (human intestinal oligopeptide transporter), hPEPT1 (human oligopeptide transporter), D2H (human D2 clone), and hSI (human sucrase isomaltase).~~
115. (Canceled)
116. (Canceled)
117. (Currently amended) The peptide of claim 114 89, wherein the peptide comprises no more than 50 amino acid residues.
118. (Currently amended) The peptide of claim 114 89, wherein the peptide comprises no more than 40 amino acid residues.

119. (Currently amended) The peptide of claim 114 89, wherein the peptide comprises no more than 30 amino acid residues.
120. (Currently amended) The peptide of claim 114 89, wherein the peptide comprises no more than 20 amino acid residues.
121. (Currently amended) A composition comprising the peptide of claim 114 89 bound to a material comprising an active agent, said active agent being of value in the treatment of a mammalian disease or disorder, wherein said mammalian disease or disorder is selected from the group consisting of hypertension, diabetes, osteoporosis, hemophilia, anemia, cancer, migraine, and angina pectoris.
122. (Currently amended) The composition of claim 121 96 wherein the active agent is a drug.
123. (Currently amended) The composition of claim 121 96 wherein the material is a particle containing an active agent.
124. (Currently amended) The composition of claim 121 96 wherein the material is a slow-release device containing the drug.
125. (Currently amended) The composition of claim 121 96 wherein the peptide is covalently or non-covalently bound to the material.
126. (Currently amended) A composition comprising a chimeric protein bound to a material comprising an active agent, in which the chimeric protein comprises a sequence selected from the group consisting of ZElan144 (SEQ ID NO:1), ZElan 145 (SEQ ID NO:2), and ZElan 146 (SEQ ID NO:3) or a binding portion thereof fused via a covalent bond to an amino acid sequence of a second protein, in which the active agent is of value in the treatment of a mammalian disease or disorder, wherein said mammalian disease or disorder is selected from the group consisting of hypertension, diabetes, osteoporosis, hemophilia, anemia, cancer, migraine, and angina pectoris.
127. (Currently amended) A composition comprising the peptide of claim 114 89 non-covalently bound to a particle containing a drug.
128. (Currently amended) A composition comprising the peptide of claim 114 89 covalently bound to a drug.
129. (Currently amended) The composition of claim 121 96 which increases the transport of the active agent through human or animal gastro-intestinal tissue.

130. (Currently amended) The composition of claim 121 96 which targets the active agent to a selected site or selected tissue in a human or animal.
131. (Currently amended) A pharmaceutical composition comprising the composition of claim 121 96 in a pharmaceutically acceptable carrier suitable for use in humans *in vivo*.
132. (Currently amended) A pharmaceutical composition comprising a therapeutically effective amount of a composition comprising the peptide of claim 114 89 and a pharmaceutically acceptable carrier.
133. (Currently amended) A composition comprising the peptide of claim 114 89, wherein the peptide is coated onto or absorbed onto or covalently bonded to the surface of a nanoparticle or microparticle.
134. (Currently amended) A nanoparticle or microparticle formed from the peptide of claim 114 89.
135. (Currently amended) The composition of claim 137 442, wherein the nano- or microparticle is a drug-loaded or drug-encapsulating nanoparticle or microparticle.
136. (Currently amended) The composition of claim 121 96 wherein the drug is insulin or leuprolide.
137. (Canceled)
138. (Canceled).
139. (New) A composition of claim 121 wherein the active agent is a drug is selected from the group consisting of a peptide, a protein, a hormone, an analgesic, an anti-migraine agent, an anti-coagulant agent, a cardiovascular agent, and anti-emetic agent, a narcotic antagonist, a chelating agent, an anti-anginal agent, a chemotherapeutic agent, a sedative, an anti-neoplastic agent, a prostoglandin, an antidiuretic agent, an anti-sense oligonucleotide, a gene, a gene- correcting hybrid oligonucleotide, a ribozyme, an aptameric oligonucleotide, a triple-helix forming oligonucleotide, a signal transduction pathway inhibitor, a tyrosine kinase inhibitor, a DNA-modifying agent, a non-viral gene delivery system, and a viral vector gene system.
140. (New) A composition of claim 121 wherein the active agent is a drug is selected from the group consisting of insulin, calcitonin, calcitonin gene regulating protein, atrial natriuretic protein, colony stimulating factor, betaseron, erythropoietin,  $\alpha$ -interferon,

- $\beta$ -interferon,  $\gamma$ -interferon, somatropin, somatotropin, somatostatins, somatomedins, luteinizing hormone-releasing hormone, tissue plasminogen activator, growth hormone releasing hormone, oxytocin, estradiol, growth hormones, leuprolide acetate, factor VIII, interleukins, fentanyl, sufentanil, butorphanol, buprenorphine, levorphanol, morphine, hydromorphone, hydrocodone, oxycodone, methadone, lidocaine, bupivacaine, diclofenac, naproxen, paverin, heparin, hirudin, scopolamine, ondansetron, domperidone, etoclopramide, diltiazem, clonidine, nifedipine, verapamil, isosorbide-5-mononitrate, benzodiazepines, phenothiazines, naltrexone, naloxone, deferoxamine, desmopressin, vasopressin, nitroglycerine, 5-fluorouracil, bleomycin, prostaglandins, and vincristine.
141. (New) A composition of claim 121 wherein the active agent is insulin or leuprolide.
142. (New) A composition of claim 126 wherein the active agent is a drug selected from the group consisting of a peptide, a protein, a hormone, an analgesic, an anti-migraine agent, an anti-coagulant agent, a cardiovascular agent, and anti-emetic agent, a narcotic antagonist, a chelating agent, an anti-anginal agent, a chemotherapeutic agent, a sedative, an anti-neoplastic agent, a prostoglandin, an antidiuretic agent, an anti-sense oligonucleotide, a gene, a gene- correcting hybrid oligonucleotide, a ribozyme, an aptameric oligonucleotide, a triple-helix forming oligonucleotide, a signal transduction pathway inhibitor, a tyrosine kinase inhibitor, a DNA-modifying agent, a non-viral gene delivery system, and a viral vector gene system.
143. (New) A composition of claim 126 wherein the active agent is a drug selected from the group consisting of insulin, calcitonin, calcitonin gene regulating protein, atrial natriuretic protein, colony stimulating factor, betaseron, erythropoietin,  $\alpha$ -interferon,  $\beta$ -interferon,  $\gamma$ -interferon, somatropin, somatotropin, somatostatins, somatomedins, luteinizing hormone-releasing hormone, tissue plasminogen activator, growth hormone releasing hormone, oxytocin, estradiol, growth hormones, leuprolide acetate, factor VIII, interleukins, fentanyl, sufentanil, butorphanol, buprenorphine, levorphanol, morphine, hydromorphone, hydrocodone, oxycodone, methadone, lidocaine, bupivacaine, diclofenac, naproxen, paverin, heparin, hirudin, scopolamine, ondansetron, domperidone, etoclopramide, diltiazem, clonidine, nifedipine, verapamil, isosorbide-5-mononitrate, benzodiazepines, phenothiazines, naltrexone,

naloxone, deferoxamine, desmopressin, vasopressin, nitroglycerine, 5-fluorouracil, bleomycin, prostaglandins, and vincristine.

144. (New) A composition of claim 126 wherein the active agent is insulin or leuprolide.